

WHAT IS CLAIMED IS:

1 A heat release sheet comprised of an expansive graphite
sheet and a reticulated body,

wherein said reticulated body is comprised of metal wire,
5 and it is overlapped on both sides of said expansive graphite sheet,
and

said expansive graphite sheet and said reticulated body are
combined.

2 The heat release sheet described in claim 1, wherein said
10 reticulated body is bursiform configuration, and said expansive
graphite sheet is inserted in the bursiform configuration.

3 The heat release sheet described in claim 1, wherein said
expansive graphite sheet is comprised of plural sheets, and a
reticulated intermediate comprised of the metal wire is intervened
15 between said plural expansive graphite sheets.

4 The heat release sheet described in claim 2, wherein said
expansive graphite sheet is comprised of plural sheets, and a
reticulated intermediate comprised of the metal wire is intervened
between said plural expansive graphite sheets.

20 5 The heat release sheet described in claim 1, wherein said
expansive graphite sheet is comprised of plural sheets, and a
metallic foil having many protrusions on its both sides is
intervened between said plural expansive graphite sheets.

6 The heat release sheet described in claim 2, wherein said
25 expansive graphite sheet is comprised of plural sheets, and a

metallic foil having many protrusions on its both sides is intervened between said plural expansive graphite sheets.

7 The heat release sheet described in claim 1, wherein said expansive graphite sheet and the reticulated body are laminated
5 and combined by metal rolling processing.

8 The heat release sheet described in claim 2, wherein said expansive graphite sheet and the reticulated body are laminated and combined by metal rolling processing.

9 The heat release sheet described in claim 3, wherein said
10 expansive graphite sheet and the reticulated body are laminated and combined by metal rolling processing.

10 The heat release sheet described in claim 4, wherein said expansive graphite sheet and the reticulated body are laminated and combined by metal rolling processing.

15 11 The heat release sheet described in either one of claim 5, wherein said expansive graphite sheet and the reticulated body are laminated and combined by metal rolling processing.

12 The heat release sheet described in claim 6, wherein said expansive graphite sheet and the reticulated body are laminated
20 and combined by metal rolling processing.

13 The heat release sheet described in claim 1, wherein said reticulated body is comprised by knit processing of the metal wire.

14 The heat release sheet described in claim 2, wherein said reticulated body is comprised by knit processing of the metal wire.

25 15 The heat release sheet described in claim 3, wherein said

reticulated body is comprised by knit processing of the metal wire.

16 The heat release sheet described in claim 4, wherein said
reticulated body is comprised by knit processing of the metal wire.

17 The heat release sheet described in claim 5, wherein said
5 reticulated body is comprised by knit processing of the metal wire.

18 The heat release sheet described in claim 6, wherein said
reticulated body is comprised by knit processing of the metal wire.

19 The heat release sheet described in claim 1, wherein said
reticulated body is comprised by weave processing of the metal
10 wire.

20 The heat release sheet described in claim 2, wherein said
reticulated body is comprised by weave processing of the metal
wire.

21 The heat release sheet described in claim 3, wherein said
15 reticulated body is comprised by weave processing of the metal
wire.

22 The heat release sheet described in claim 4, wherein said
reticulated body is comprised by weave processing of the metal
wire.

20 23 The heat release sheet described in claim 5, wherein said
reticulated body is comprised by weave processing of the metal
wire.

24 The heat release sheet described in claim 6, wherein said
reticulated body is comprised by weave processing of the metal
25 wire.

25 The heat release sheet described in claim 1, wherein plural
said reticulated bodies are laminated at least one side of said
expansive graphite sheet.

26 The heat release sheet described in claim 2, wherein plural
5 said reticulated bodies are laminated at least one side of said
expansive graphite sheet.

27 The heat release sheet described in claim 3, wherein plural
said reticulated bodies are laminated at least one side of said
expansive graphite sheet.

10 28 The heat release sheet described in claim 4, wherein plural
said reticulated bodies are laminated at least one side of said
expansive graphite sheet.

29 The heat release sheet described in claim 5, wherein plural
said reticulated bodies are laminated at least one side of said
15 expansive graphite sheet.

30 The heat release sheet described in claim 6, wherein plural
said reticulated bodies are laminated at least one side of said
expansive graphite sheet.

31 The heat release sheet described in claim 1, wherein surface
20 of said reticulated body is covered with resin layer in at least one
side of said expansive graphite sheet.

32 The heat release sheet described in either one of claim 2,
wherein surface of said reticulated body is covered with resin layer
in at least one side of said expansive graphite sheet.

25 33 The heat release sheet described in claim 3, wherein surface

of said reticulated body is covered with resin layer in at least one side of said expansive graphite sheet.

34 The heat release sheet described in claim 4, wherein surface of said reticulated body is covered with resin layer in at least one
5 side of said expansive graphite sheet.

35 The heat release sheet described in claim 5, wherein surface of said reticulated body is covered with resin layer in at least one side of said expansive graphite sheet.

36 The heat release sheet described in claim 6, wherein surface
10 of said reticulated body is covered with resin layer in at least one side of said expansive graphite sheet.

37 The heat release sheet described in claim 31, wherein a protective layer comprised of a synthetic resin film is applied on a surface of said resin layer.

15 38 The heat release sheet described in claim 32, wherein a protective layer comprised of a synthetic resin film is applied on a surface of said resin layer.

39 The heat release sheet described in claim 33, wherein a protective layer comprised of a synthetic resin film is applied on a
20 surface of said resin layer.

40 The heat release sheet described in claim 34, wherein a protective layer comprised of a synthetic resin film is applied on a surface of said resin layer.

41 The heat release sheet described in claim 35, wherein a
25 protective layer comprised of a synthetic resin film is applied on a

surface of said resin layer.

42 The heat release sheet described in claim 36, wherein a protective layer comprised of a synthetic resin film is applied on a surface of said resin layer.

5 43 The heat release sheet described in claim 1, wherein said combined expansive graphite sheet and said reticulated body are washed with reduction water.

44 The heat release sheet described in claim 2, wherein said combined expansive graphite sheet and said reticulated body are
10 washed with reduction water.

45 The heat release sheet described in claim 3, wherein said combined expansive graphite sheet and said reticulated body are washed with reduction water.

46 The heat release sheet described in claim 4, wherein said
15 combined expansive graphite sheet and said reticulated body are washed with reduction water.

47 The heat release sheet described in claim 5, wherein said combined expansive graphite sheet and said reticulated body are washed with reduction water.

20 48 The heat release sheet described in either one of claim 6, wherein said combined expansive graphite sheet and said reticulated body are washed with reduction water.

49 A heat sink which is obtained by fabricating of the heat release sheet described in claim 1.

25 50 A heat sink which is obtained by fabricating of the heat

release sheet described in claim 2.

51 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 3.

52 A heat sink which is obtained by fabricating of the heat
5 release sheet described in claim 4.

53 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 5.

54 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 6.

10 55 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 7.

56 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 13.

57 A heat sink which is obtained by fabricating of the heat
15 release sheet described in claim 19.

58 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 25.

59 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 31.

20 60 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 37.

61 A heat sink which is obtained by fabricating of the heat
release sheet described in claim 43.